

SEQUENCE LISTING

<110> Anderson, Christen M.
 Davis, Robert E.
 Clevenger, William
 Wiley, Sandra Eileen
 Willer, Scott W.
 Szabo, Tomas R.
 Ghosh, Soumitra S.
 Moos, Walter H.
 Pei, Yazhong

<120> PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT),
 NOVEL ANT LIGANDS AND SCREENING ASSAYS THEREFOR

<130> 660088.420D1

<140> US

<141> 2001-03-14

<160> 37

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 894

<212> DNA

<213> Homo sapien

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gccagcaaac	agatcagtgc	tgagaagcag	tacaaaggga	tcattgattg	tgtggtgaga	180
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caaggcatca	ttatctatag	agctgcctac	ttcggagtct	atgatactgc	caaggggatg	600
ctgcctgacc	ccaagaacgt	gcacattttt	gtgagctgga	tgattgcccc	gagtgtgacg	660
gcagtcgcag	ggctgctgtc	ctaccccttt	gacactgttc	gtcgtagaat	gatgatgcag	720
tccggccgga	aaggggccga	tattatgtac	acggggacag	ttgactgctg	gaggaagatt	780
gcaaaagacg	aaggagccaa	ggccttcctc	aaaggtgcct	ggtccaatgt	gctgagaggc	840
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<213> Homo sapien

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gccagcaagc	agatcactgc	agataagcaa	tacaaaggca	ttatagactg	cgtgggtccgt	180
attcccaagg	agcaggaagt	tctgtccttc	tggcgcggta	acctggccaa	tgtcatcaga	240

tacttcccca	cccaggctct	taacttgcgc	ttcaaagata	aatacaagca	gatcttctctg	300
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actgctgttg	ccgggttgac	ttcctatcca	tttgacaccg	ttcgccgccg	catgatgatg	720
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attgctcgtg	atgaaggagg	caaagctttt	ttcaagggtg	catggtccaa	tgttctcaga	840
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<212> DNA

<213> Homo sapien

<400> 3

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gccagcaagc	agatcgccgc	cgacaagcag	tacaagggca	tcgtggactg	cattgtccgc	180
atccccaagg	agcagggcgt	gctgtccttc	tgagggggca	accttgccaa	cgtcattcgc	240
tacttcccca	ctcaagccct	caacttgcgc	ttcaaggata	agtacaagca	gatcttctctg	300
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gtgcagggca	tcatcatcta	ccgggcggcc	tacttcggcg	tgtacgatac	ggccaagggc	600
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acggccggtg	ccggcggtgt	gtcctacccc	ttcgacacgg	tgccgcggcg	catgatgatg	720
cagtcggggc	gcaaaggagc	tgacatcatg	tacacgggca	ccgtcgactg	ttggagggaag	780
atcttcagag	atgagggggg	caaggccttc	ttcaagggtg	cgtggtccaa	cgctcctgcg	840
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<213> Artificial Sequence

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<223> PCR Primer

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<210> 6

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<400> 6
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<210> 7
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 <213> Artificial Sequence

<220>
 <223> PCR Primer

<400> 7
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<210> 8
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 <223> PCR Primer

<400> 8
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<210> 9
 <211> 44
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<220>
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<400> 9
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<210> 10
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 <223> Sequence primer

<400> 10
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<210> 11
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 <212> DNA

<213> Artificial Sequence

<220>

<223> Sequence primer

<400> 11

cgccaaaaca gccaaagt

18

<210> 12

<211> 45

<212> DNA

<213> Artificial Sequence

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<400> 12

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45

<210> 13

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Mutagenic oligonucleotide primer

<400> 13

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45

<210> 14

<211> 35

<212> DNA

<213> Artificial Sequence

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<223> PCR primer

<400> 14

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35

<210> 15

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 15

cccgggctcg agtttagagtc accttcttga gctc

34

<210> 16

<211> 41

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 <400> 18
 aaatgataac catctcgc 18

 <210> 19
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 <400> 19
 acttcaagga gaatttcc 18

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<210> 23
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<400> 23
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<210> 24
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<400> 24
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<210> 25
<211> 31
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<220>
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<400> 25
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<210> 26
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<212> DNA
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41

<210> 27

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 27

ttataggatc cttagatcac cttcttgagc tcgtcgtaca g

41

<210> 28

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 28

ttaatgggta ccatgacgga acaggccatc tccttcgcca aa

42

<210> 29

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 29

ttataactga gttagatcac cttcttgagc tcgtcgtaca gg

42

<210> 30

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 30

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1 5 10 15

<210> 31

<211> 297

<212> PRT

<213> Homo sapien

<400> 31

Met Gly Asp His Ala Trp Ser Phe Leu Lys Asp Phe Leu Ala Gly Ala
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Lys Leu Leu Leu Gln Val Gln His Ala Ser Lys Gln Ile Ser Ala Glu
 35 40 45
 Lys Gln Tyr Lys Gly Ile Ile Asp Cys Val Val Arg Ile Pro Lys Glu
 50 55 60
 Gln Gly Phe Leu Ser Phe Trp Arg Gly Asn Leu Ala Asn Val Ile Arg
 65 70 75 80
 Tyr Phe Pro Thr Gln Ala Leu Asn Phe Ala Phe Lys Asp Lys Tyr Lys
 85 90 95
 Gln Leu Phe Leu Gly Gly Val Asp Arg His Lys Gln Phe Trp Arg Tyr
 100 105 110
 Phe Ala Gly Asn Leu Ala Ser Gly Gly Ala Ala Gly Ala Thr Ser Leu
 115 120 125
 Cys Phe Val Tyr Pro Leu Asp Phe Ala Arg Thr Arg Leu Ala Ala Asp
 130 135 140
 Val Gly Arg Arg Ala Gln Arg Glu Phe His Gly Leu Gly Asp Cys Ile
 145 150 155 160
 Ile Lys Ile Phe Lys Ser Asp Gly Leu Arg Gly Leu Tyr Gln Gly Phe
 165 170 175
 Asn Val Ser Val Gln Gly Ile Ile Ile Tyr Arg Ala Ala Tyr Phe Gly
 180 185 190
 Val Tyr Asp Thr Ala Lys Gly Met Leu Pro Asp Pro Lys Asn Val His
 195 200 205
 Ile Phe Val Ser Trp Met Ile Ala Gln Ser Val Thr Ala Val Ala Gly
 210 215 220
 Leu Leu Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met Gln
 225 230 235 240
 Ser Gly Arg Lys Gly Ala Asp Ile Met Tyr Thr Gly Thr Val Asp Cys
 245 250 255
 Trp Arg Lys Ile Ala Lys Asp Glu Gly Ala Lys Ala Phe Phe Lys Gly
 260 265 270
 Ala Trp Ser Asn Val Leu Arg Gly Met Gly Gly Ala Phe Val Leu Val
 275 280 285
 Leu Tyr Asp Glu Ile Lys Lys Tyr Val
 290 295

<210> 32

<211> 298

<212> PRT

<213> Homo sapien

<400> 32

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 Lys Leu Leu Leu Gln Val Gln His Ala Ser Lys Gln Ile Thr Ala Asp
 35 40 45
 Lys Gln Tyr Lys Gly Ile Ile Asp Cys Val Val Arg Ile Pro Lys Glu
 50 55 60
 Gln Glu Val Leu Ser Phe Trp Arg Gly Asn Leu Ala Asn Val Ile Arg
 65 70 75 80
 Tyr Phe Pro Thr Gln Ala Leu Asn Phe Ala Phe Lys Asp Lys Tyr Lys
 85 90 95
 Gln Ile Phe Leu Gly Gly Val Asp Lys Arg Thr Gln Phe Trp Arg Tyr
 100 105 110
 Phe Ala Gly Asn Leu Ala Ser Gly Gly Ala Ala Gly Ala Thr Ser Leu
 115 120 125

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130						135					140				
Val	Gly	Lys	Ala	Gly	Ala	Glu	Arg	Glu	Phe	Arg	Gly	Leu	Gly	Asp	Cys
145						150				155					160
Leu	Val	Lys	Ile	Tyr	Lys	Ser	Asp	Gly	Ile	Lys	Gly	Leu	Tyr	Gln	Gly
				165					170					175	
Phe	Asn	Val	Ser	Val	Gln	Gly	Ile	Ile	Ile	Tyr	Arg	Ala	Ala	Tyr	Phe
				180					185					190	
Gly	Ile	Tyr	Asp	Thr	Ala	Lys	Gly	Met	Leu	Pro	Asp	Pro	Lys	Asn	Thr
		195					200					205			
His	Ile	Val	Ile	Ser	Trp	Met	Ile	Ala	Gln	Thr	Val	Thr	Ala	Val	Ala
		210				215					220				
Gly	Leu	Thr	Ser	Tyr	Pro	Phe	Asp	Thr	Val	Arg	Arg	Arg	Met	Met	Met
225					230					235					240
Gln	Ser	Gly	Arg	Lys	Gly	Thr	Asp	Ile	Met	Tyr	Thr	Gly	Thr	Leu	Asp
				245					250					255	
Cys	Trp	Arg	Lys	Ile	Ala	Arg	Asp	Glu	Gly	Gly	Lys	Ala	Phe	Phe	Lys
			260					265					270		
Gly	Ala	Trp	Ser	Asn	Val	Leu	Arg	Gly	Met	Gly	Gly	Ala	Phe	Val	Leu
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Val	Leu	Tyr	Asp	Glu	Ile	Lys	Lys	Tyr	Thr						
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<210> 33

<211> 298

<212> PRT

<213> Homo sapien

<400> 33

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Lys	Leu	Leu	Leu	Gln	Val	Gln	His	Ala	Ser	Lys	Gln	Ile	Ala	Ala	Asp
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Lys	Gln	Tyr	Lys	Gly	Ile	Val	Asp	Cys	Ile	Val	Arg	Ile	Pro	Lys	Glu
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Gln	Gly	Val	Leu	Ser	Phe	Trp	Arg	Gly	Asn	Leu	Ala	Asn	Val	Ile	Arg
65					70				75						80
Tyr	Phe	Pro	Thr	Gln	Ala	Leu	Asn	Phe	Ala	Phe	Lys	Asp	Lys	Tyr	Lys
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Gln	Ile	Phe	Leu	Gly	Gly	Val	Asp	Lys	His	Thr	Gln	Phe	Trp	Arg	Tyr
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Phe	Ala	Gly	Asn	Leu	Ala	Ser	Gly	Gly	Ala	Ala	Gly	Ala	Thr	Ser	Leu
		115					120					125			
Cys	Phe	Val	Tyr	Pro	Leu	Asp	Phe	Ala	Arg	Thr	Arg	Leu	Ala	Ala	Asp
		130				135					140				
Val	Gly	Lys	Ser	Gly	Thr	Glu	Arg	Glu	Phe	Arg	Gly	Leu	Gly	Asp	Cys
145						150				155					160
Leu	Val	Lys	Ile	Thr	Lys	Ser	Asp	Gly	Ile	Arg	Gly	Leu	Tyr	Gln	Gly
				165					170					175	
Phe	Ser	Val	Ser	Val	Gln	Gly	Ile	Ile	Ile	Tyr	Arg	Ala	Ala	Tyr	Phe
				180					185					190	
Gly	Val	Tyr	Asp	Thr	Ala	Lys	Gly	Met	Leu	Pro	Asp	Pro	Lys	Asn	Thr
		195					200					205			
His	Ile	Val	Val	Ser	Trp	Met	Ile	Ala	Gln	Thr	Val	Thr	Ala	Val	Ala
	210					215					220				

Gly Val Val Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met
 225 230 235 240
 Gln Ser Gly Arg Lys Gly Ala Asp Ile Met Tyr Thr Gly Thr Val Asp
 245 250 255
 Cys Trp Arg Lys Ile Phe Arg Asp Glu Gly Gly Lys Ala Phe Phe Lys
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 275 280 285
 Val Leu Tyr Asp Glu Leu Lys Lys Val Ile
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<210> 34
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 <213> Artificial Sequence

<220>
 <223> Primer for PCR amplification of human ANT3 for
 expression construct

<400> 34
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<210> 35
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<220>
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 expression construct

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<210> 36
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer for PCR amplification of EYFP

<400> 36
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<210> 37
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 <213> Artificial Sequence

<220>
 <223> Primer for PCR amplification of EYFP

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